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▶ PHP (6 Weeks Industrial Training) Course Structure

Week 1: Basics of HTML and CSS

- Overview of HTML: structure, elements, and tags
- Creating a simple HTML document
- Headings, paragraphs, lists, links, and images
- Creating forms: input types, labels, and buttons
- Building tables: rows, columns, and headers
- Overview of CSS: syntax, selectors, and properties
- Styling text, colors, and backgrounds
- Box model, margins, padding, and borders

Week 2: Getting Started with PHP

- Setting up a local development environment (XAMPP, WAMP, MAMP)
- PHP syntax and embedding PHP in HTML
- Variables, constants, and data types
- Operators and expressions
- Control structures: if, else, switch
- Loops: for, while, do-while
- Handling form data with PHP
- Superglobals: \$_GET, \$_POST, \$_REQUEST
- Validating and sanitizing user input

Week 3: PHP Functions and Arrays

- Defining and calling functions
- Function arguments and return values
- Variable scope and global variables

- Indexed and associative arrays
- Array functions: sort, merge, push, pop
- Multidimensional arrays

- String functions: concatenation, length, replace, substring
- Regular expressions and pattern matching
- String manipulation and formatting

Week 4: Basic MySQL and Advanced PHP Concepts

- Overview of databases and SQL
- Installing and setting up MySQL
- Basic SQL queries: SELECT, INSERT, UPDATE, DELETE
- Creating and managing databases and tables

- Connecting to MySQL using PHP (MySQL and PDO)
- Performing CRUD operations (Create, Read, Update, Delete)

- Working with files: reading and writing files
- File handling functions: open, read, write, close
- Uploading files via HTML forms

Week 5: PHP OOP and Security

- Classes and objects
- Properties, methods, and constructors
- Inheritance and polymorphism

- Interfaces and abstract classes
- Magic methods and traits
- Namespaces and autoloading

- Securing PHP applications
- Preventing SQL injection and XSS attacks
- Using prepared statements and parameterized queries

Week 6: Building a Complete PHP Project

- Choosing a project (e.g., blog, e-commerce site, user management system)
- Designing the database schema
- Creating the project structure

- Developing the frontend with HTML, CSS, and JavaScript
- Implementing backend functionality with PHP
- Integrating PHP with the database

- Testing the application for bugs and issues
- Deploying the application to a web server
- Final project presentation and review



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